By Express Mail # EV273338395US

CLAIMS

What is claimed:

1. An oscillating motor comprising: 1 a cylinder which can be filled with a hydraulic medium, said cylinder 2 having an inside wall with at least one rib extending radially inward; 3 a motor shaft supported in said cylinder with freedom to oscillate; 4 a sleeve concentric to said motor shaft; 5 at least one vane extending radially outward to said cylinder; 6 7 a pair of cylinder covers surrounding said motor shaft and forming working chambers between said cylinder and said sleeve; 8 9 a pair of ring-shaped spaces between said motor shaft and said cylinder: a pair of pressure-preloaded sealing arrangements in respective said ring-10 shaped spaces sealing off said working chambers; and 11 12 an axial groove between said motor shaft and said sleeve, said axial groove forming a pressure equalization channel connecting said ring-shaped spaces. 13 An oscillating motor as in claim 1 wherein said pressure 1 2. equalization channel is machined in said motor shaft. 2 3. An oscillating motor as in claim 1 wherein said pressure 1 equalization channel is formed in said sleeve. 2

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1	4. An oscillating motor as in claim 1 further comprising a connection
2	which connects said pressure equalization channel to one of said working chambers.
1	5. An oscillating motor as in claim 4 wherein each said vane
2	comprises a sealing strip which contacts said cylinder, said connection opening against
3	said sealing strip, said sealing strip opening said connection to a working chamber as a
4	function of pressure.
1	6. An oscillating motor as in claim 3 wherein said motor shaft
2	comprises a pair of circumferential recesses which overlap respective said ring-shaped
3	spaces.
1	7. An oscillating motor as in claim 1 wherein said sleeve carries said
2	at least one vane.
1	8. An oscillating motor comprising:
2	a cylinder which can be filled with a hydraulic medium, said cylinder
3	having an inside wall with at least one rib extending radially inward;
4	a motor shaft supported in said cylinder with freedom to oscillate;
5	at least one vane extending radially outward from said shaft to said
6	cylinder;

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a pair of cylinder covers surrounding said motor shaft and forming working
chambers between said cylinder and said motor shaft;
a pair of ring-shaped spaces between said motor shaft and said cylinder;
a pair of pressure-preloaded sealing arrangements in respective said ringshaped spaces sealing off said working chambers; and
a first axial groove in each said vane connecting said ring-shaped spaces,

9. An oscillating motor as in claim 8 further comprising a second axial groove which adjoins said first axial groove at a shoulder in each said vane, said sealing strip being supported on said shoulder.

said first axial groove receiving a sealing strip which seals off the working chamber.

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